

**ABSTRACT**

The invention concerns a flat thermionic emission screen (1) comprising has a first substrate (2) on which are arranged an emission cathode (4) and an electron extraction grid (8), a second substrate (12) facing the first substrate (2) on which is arranged an anode (14) designed to collect the electrons emitted by the cathode (4), and an electronic control circuit of the anode (14) voltage comprising having at least one commutation component (18, 20). According to the invention, the commutation component (18,20) is built into the first substrate (2) and in the second substrate (12) of the screen (1).

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Figure 6.